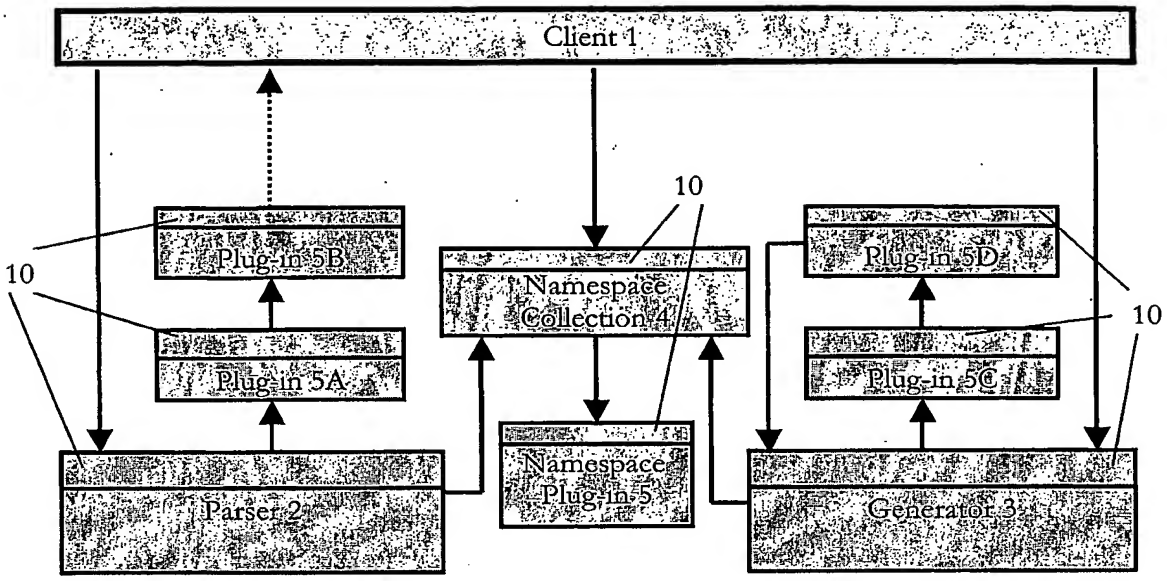


Figure 1

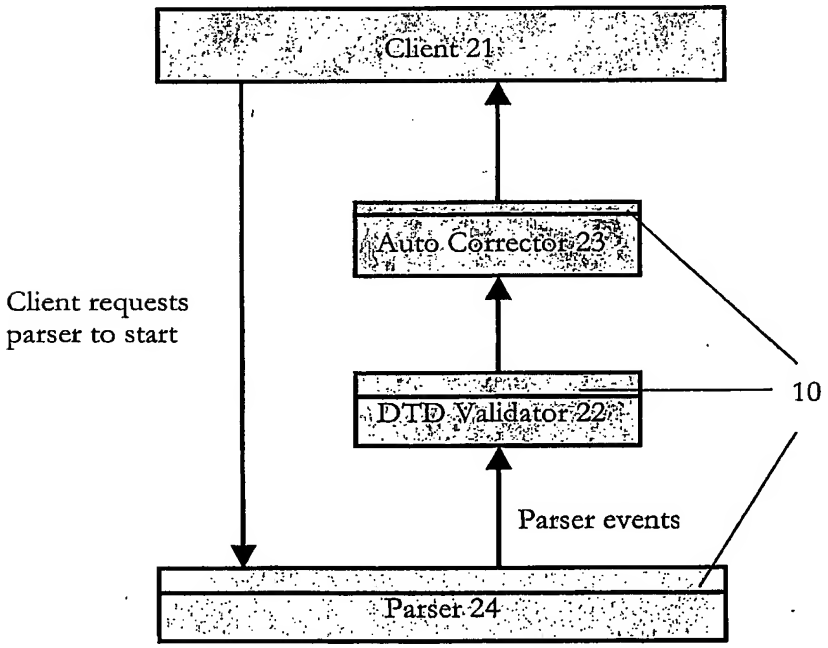


Figure 2

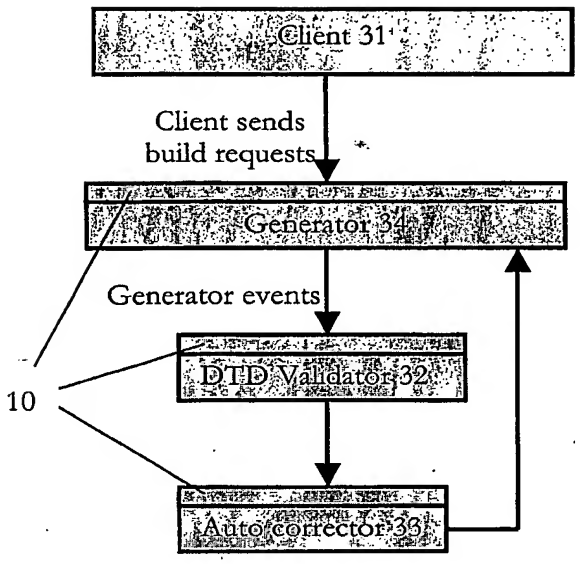

Client 31
Client sends build requests
Generator 34
Generator events
DTD Validator 32
10
Auto corrector 33

Figure 3

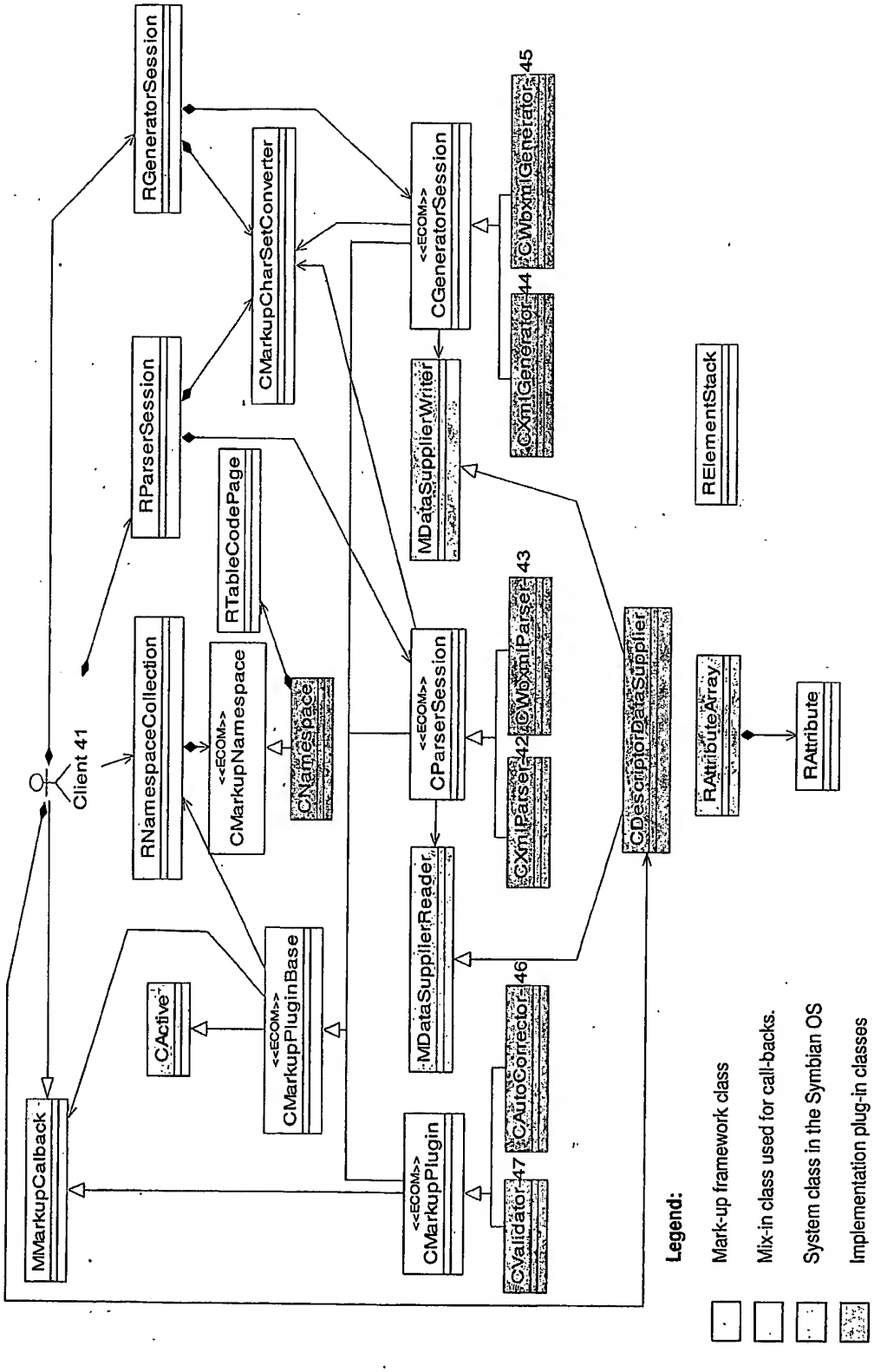
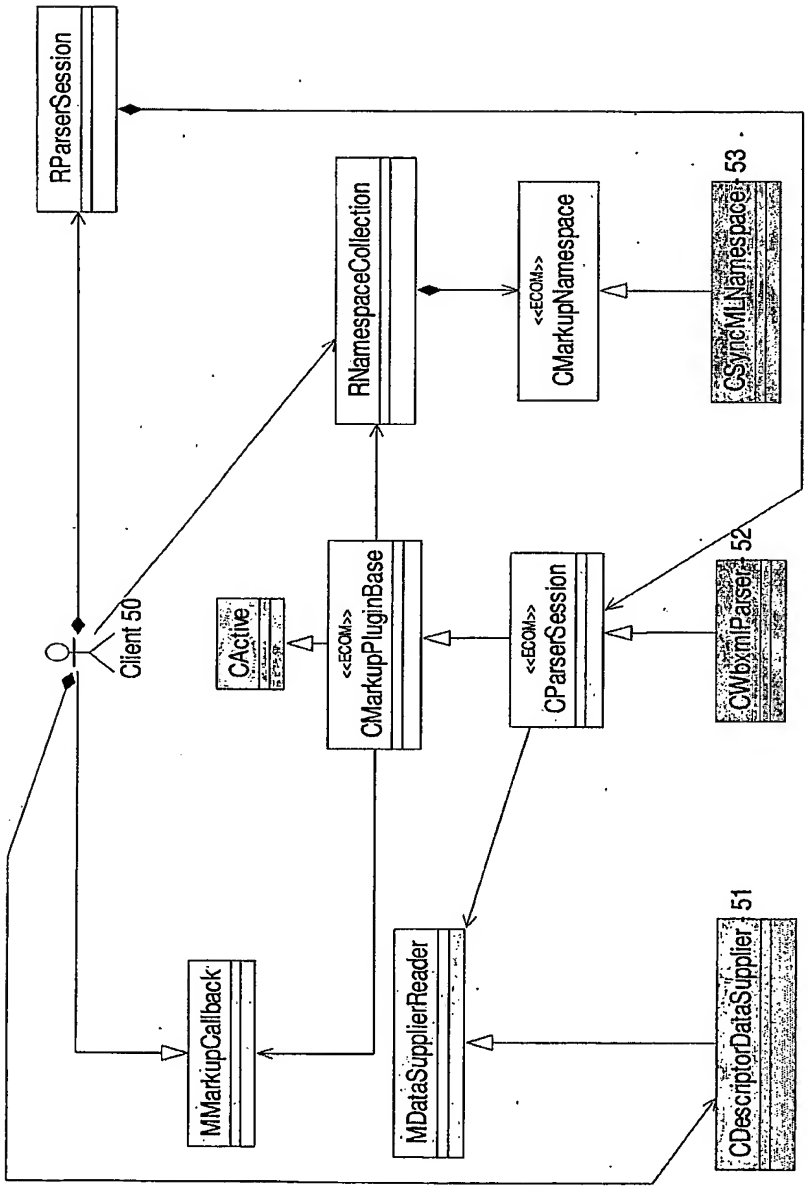

RGeneratorSession
RParserSession
CMarkupCharSetConverter
<<ECOM>>
CGeneratorSession
CWbxmlGenerator
45
CXmlGenerator
44
MDataSupplierWriter
RElementStack
RTableCodePage
RNamespaceCollection
<<ECOM>>
CMarkupNamespace
CNamespace
Client 41
<<ECOM>>
CParserSession
CWbxmlParser
43
CXmlParser
42
CDescriptorDataSupplier
RAttributeArray
RAttribute
CActive
<<ECOM>>
CMarkupPluginBase
MDataSupplierReader
MMarkupCallback
<<ECOM>>
CMarkupPlugin
CAutoCorrector
46
CValidator
47
Legend:
Mark-up framework class
Mix-in class used for call-backs.
System class in the Symbian OS
Implementation plug-in classes

Figure 4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RNamespaceCollection
<<ECOM>>
CMarkupNamespace
CSymbMLNamespace
53
Client 50
CActive
<<ECOM>>
CMarkupPluginBase
<<ECOM>>
CParserSession
CWbxmlParser
52
MMarkupCallback
MDataSupplierReader
CDescriptorDataSupplier
51

Figure 5

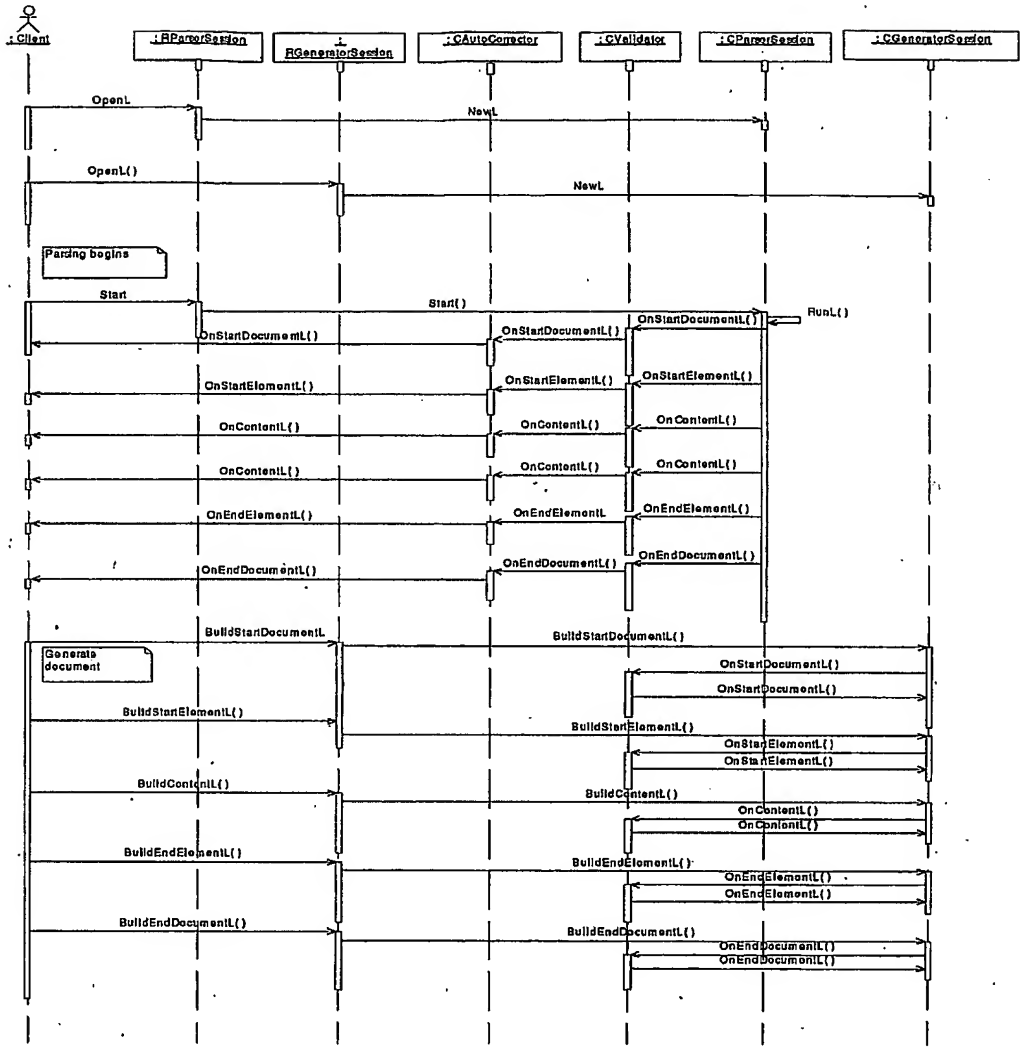

:Client
:RParserSession
:RGeneratorSession
:CAutoCorrector
:CValidator
:CParserSession
:CGeneratorSession
OpenL
NewL
OpenL()
NewL
Parsing begins
Start
Start()
RunL()
OnStartDocumentL()
OnStartElementL()
OnContentL()
OnEndElementL()
OnEndDocumentL()
BuildStartDocumentL
BuildStartDocumentL()
Generate document
BuildStartElementL()
BuildContentL()
BuildEndElementL()
BuildEndDocumentL()

FIGURE 6

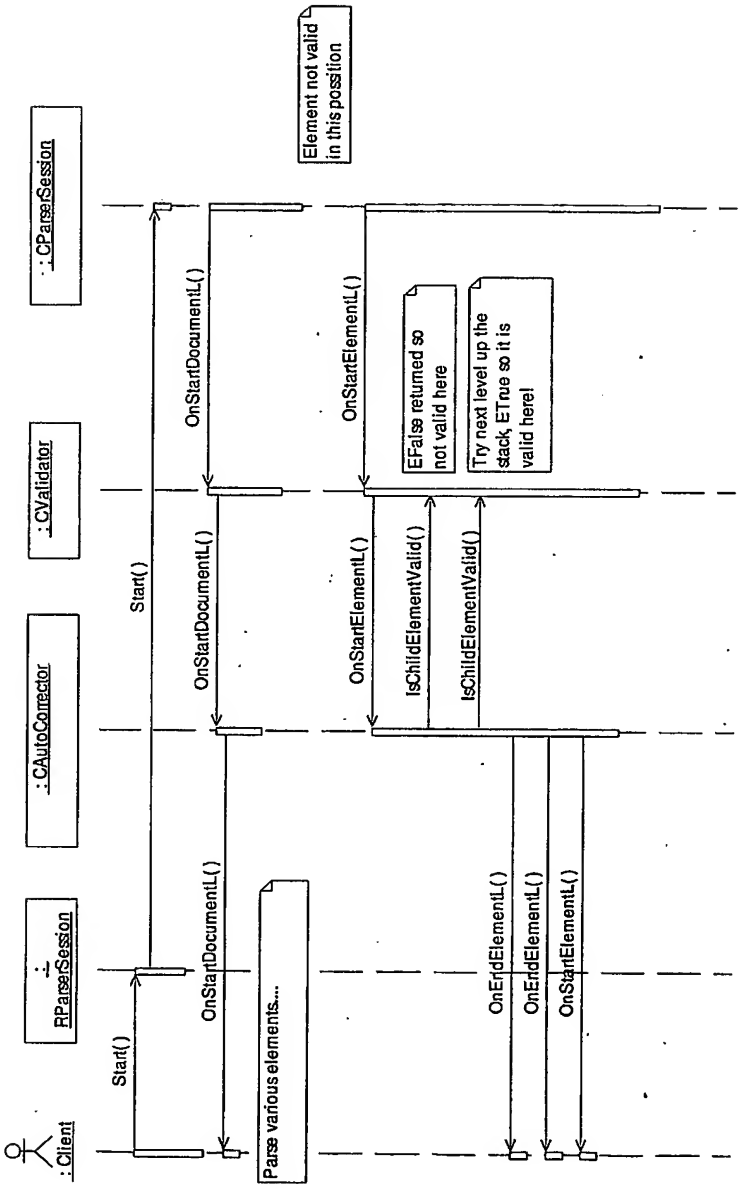

: Client
RParserSession
: CAutoCorrector
: CValidator
: CParserSession
Start()
Start()
OnStartDocumentL()
OnStartDocumentL()
OnStartDocumentL()
Parse various elements...
OnStartElementL()
OnStartElementL()
Element not valid in this position
EFalse returned so not valid here
Try next level up the stack, ETrue so it is valid here!
IsChildElementValid()
IsChildElementValid()
OnEndElementL()
OnEndElementL()
OnStartElementL()

Figure 7

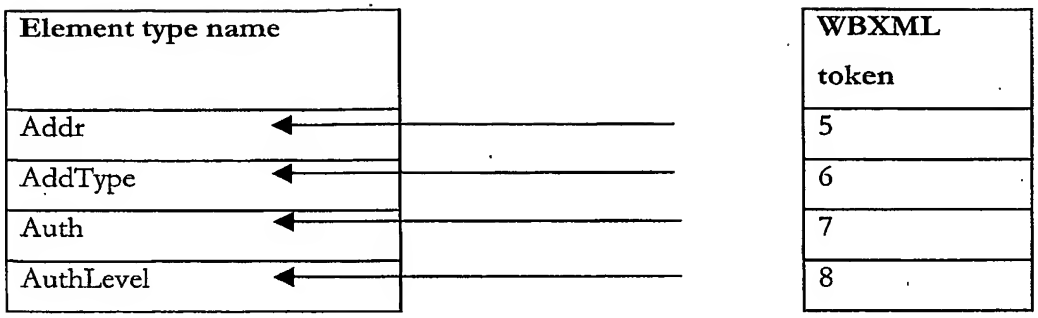

Element type name
Addr
AddType
Auth
AuthLevel
WBXML token
5
6
7
8

Figure 8

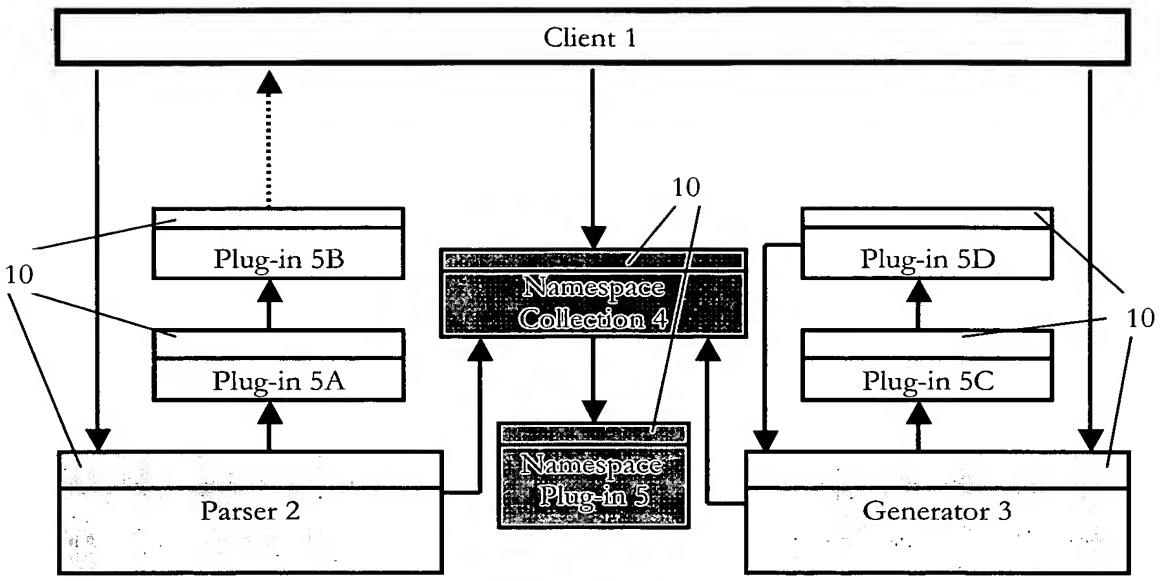


Figure 1

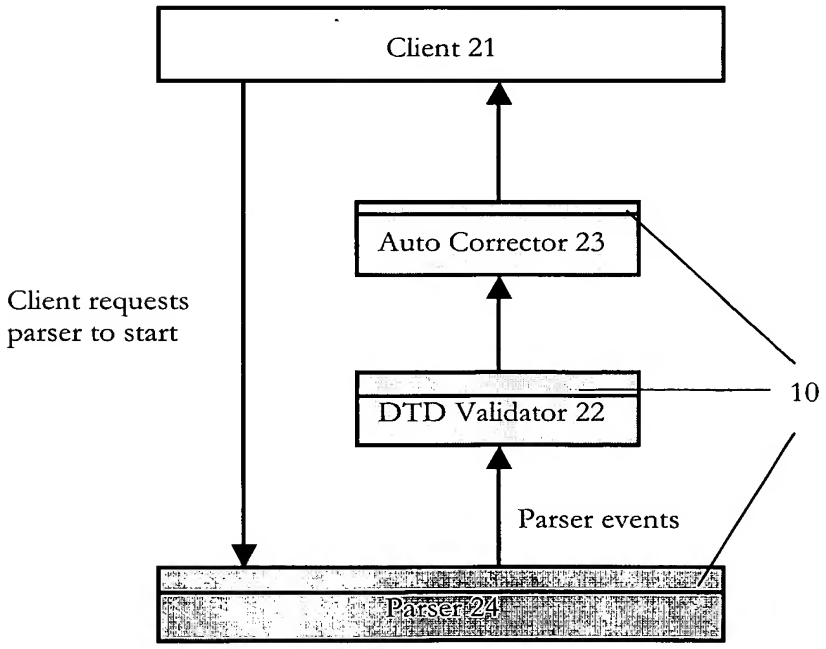


Figure 2

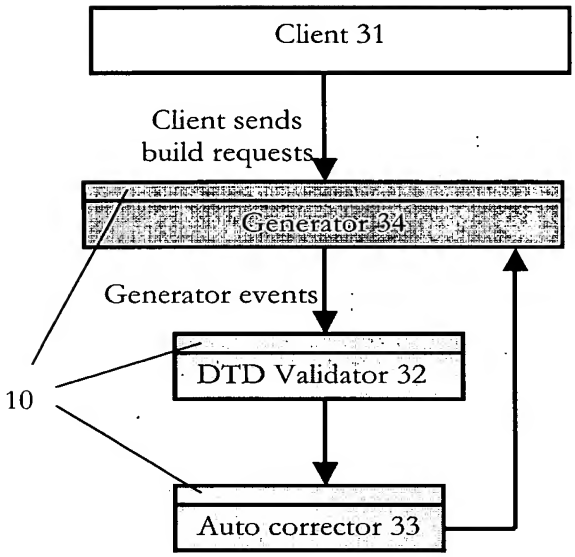
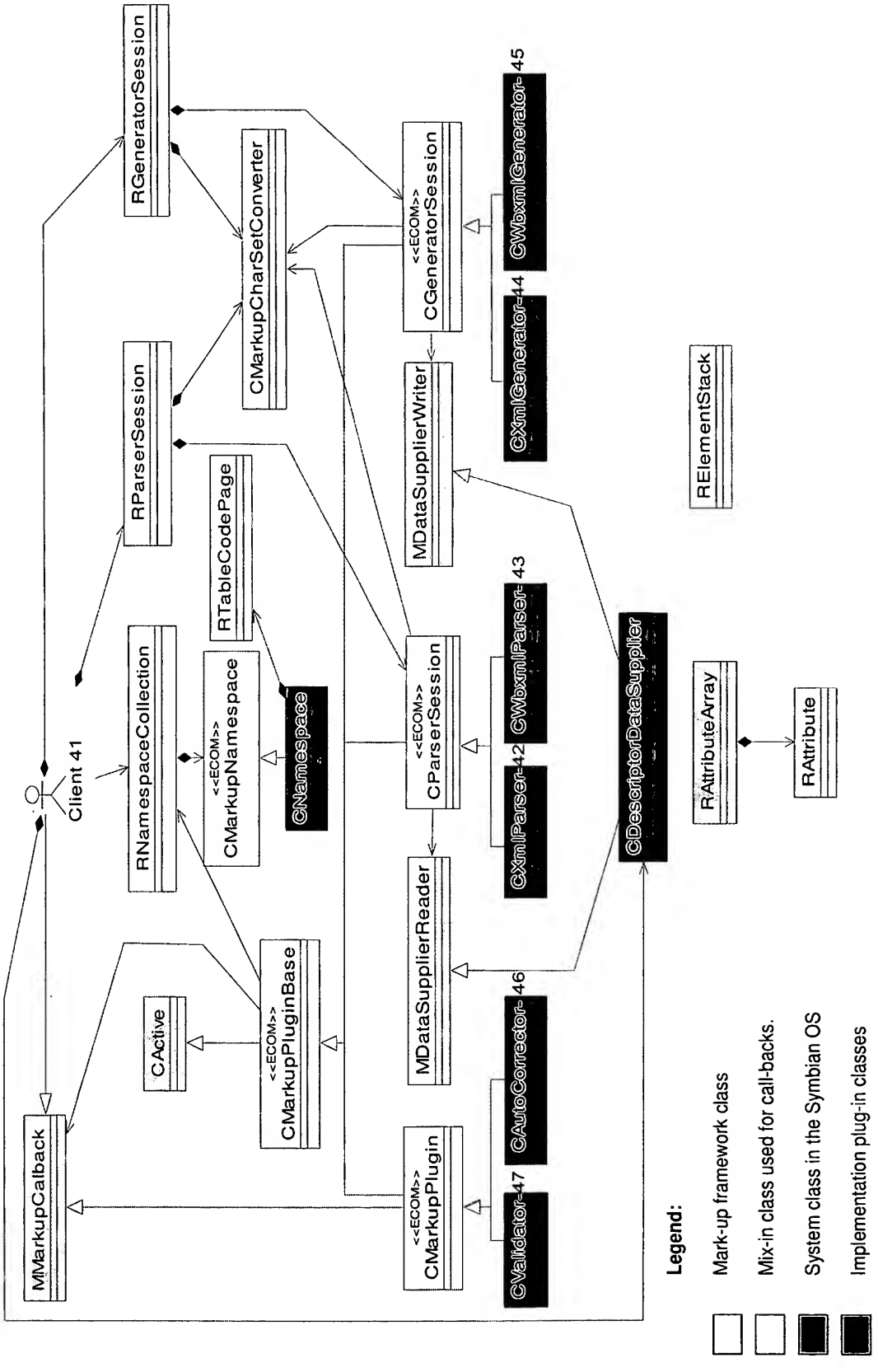

Client 31
Client sends build requests
Generator 34
Generator events
DTD Validator 32
10
Auto corrector 33

Figure 3


MMarkupCallback
Client 41
RGeneratorSession
RParserSession
CMarkupCharSetConverter
RNamespaceCollection
RTableCodePage
<<ECOM>>
CMarkupNamespace
CNamespace
<<ECOM>>
CGeneratorSession
CWbxmlGenerator-45
CXmlGenerator-44
MDataSupplierWriter
<<ECOM>>
CParserSession
CWbxmlParser-43
CXmlParser-42
CDescriptorDataSupplier
RElementStack
CActive
<<ECOM>>
CMarkupPluginBase
MDataSupplierReader
RAttributeArray
RAttribute
<<ECOM>>
CMarkupPlugin
CAutoCorrector-46
CValidator-47
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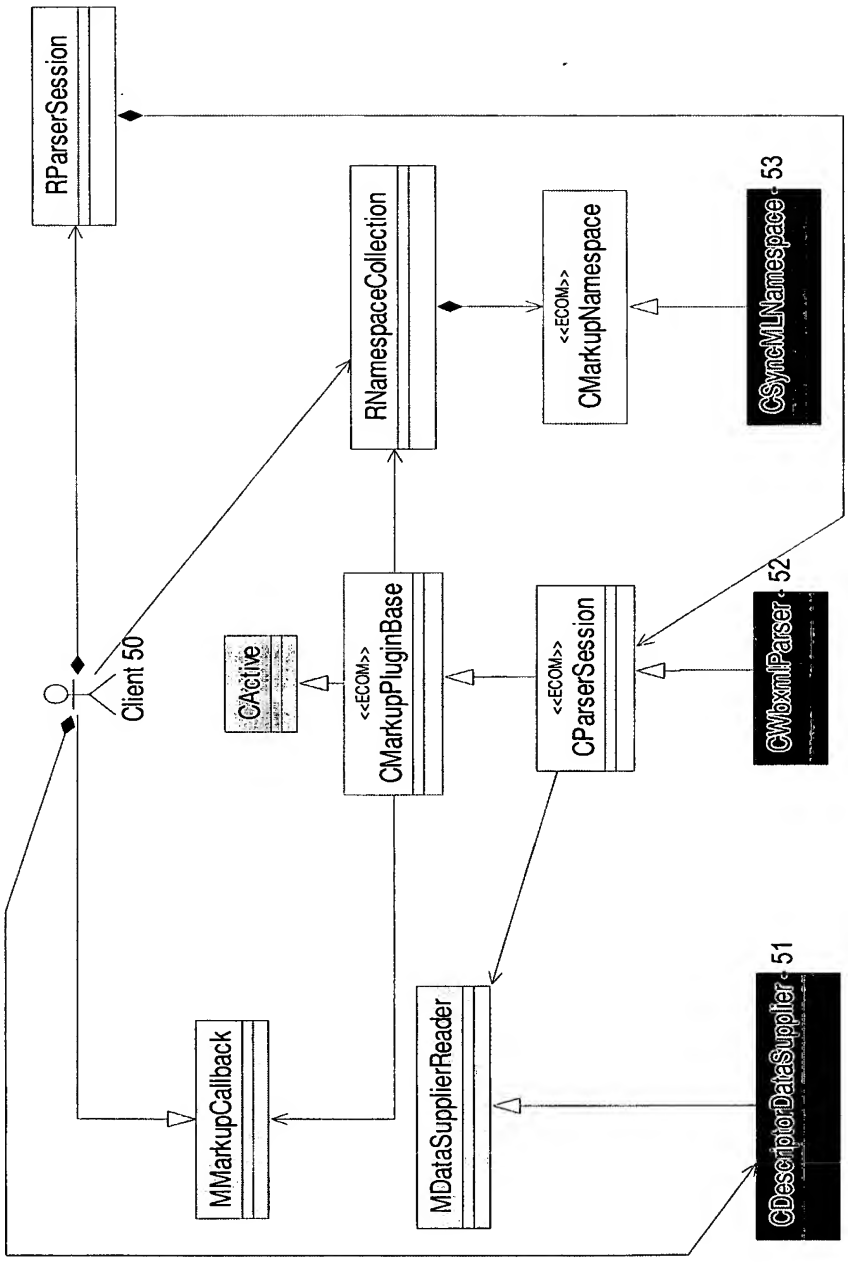
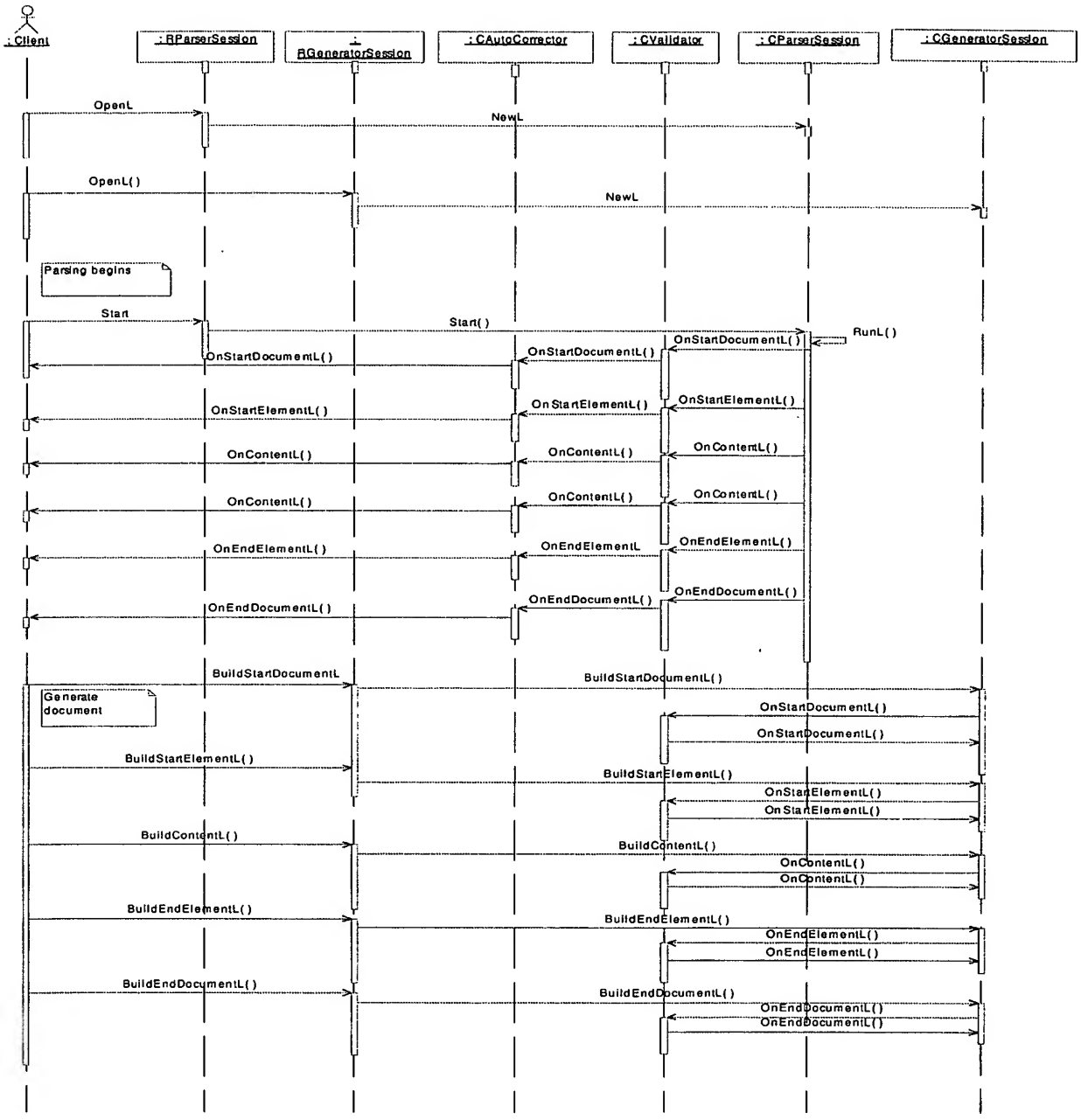

RParserSession
Client 50
RNamespaceCollection
<<ECOM>>
CMarkupNamespace
CSyncMLNamespace
53
CActive
<<ECOM>>
CMarkupPluginBase
<<ECOM>>
CParserSession
CWbxmlParser
52
MMarkupCallback
MDataSupplierReader
CDescriptorDataSupplier
51

Figure 5


:Client
:RParserSession
:RGeneratorSession
:CAutoCorrector
:CValidator
:CParserSession
:CGeneratorSession
OpenL
NewL
OpenL()
NewL
Parsing begins
Start
Start()
RunL()
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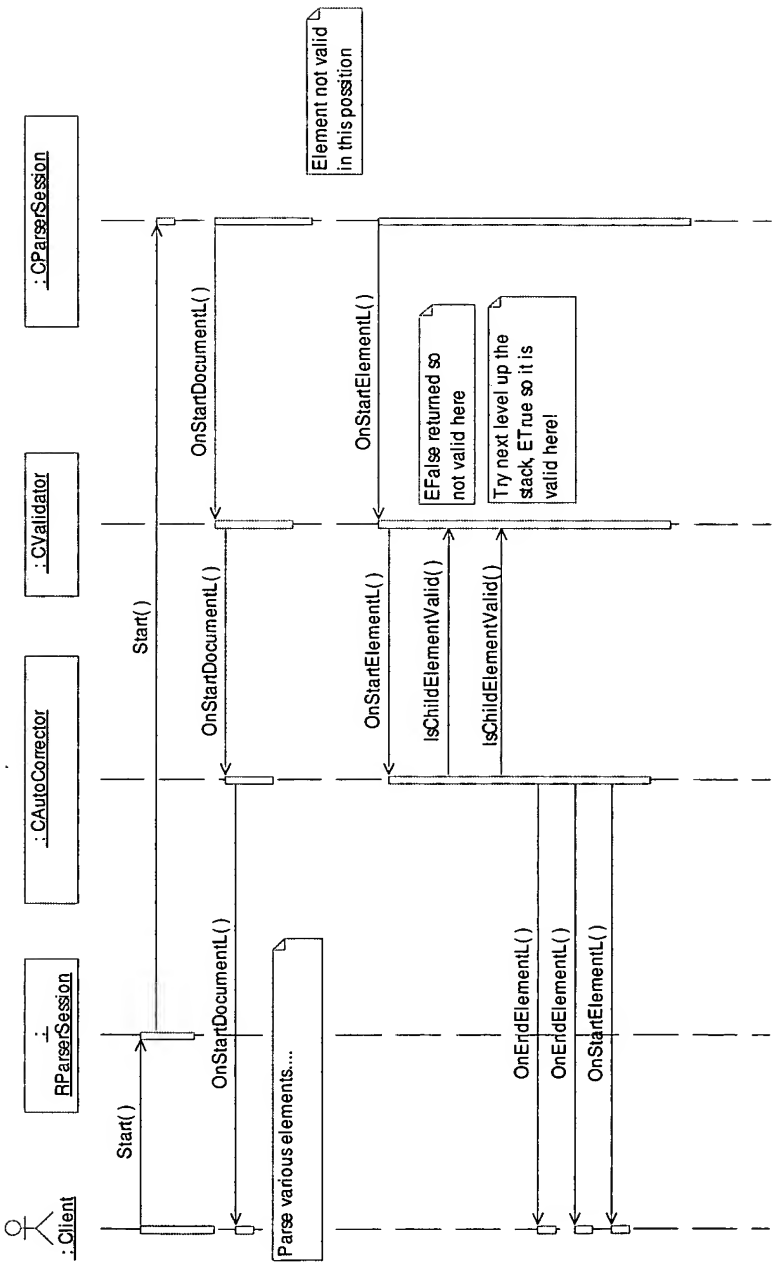
OnStartElementL()
OnContentL()
OnEndElementL()
OnEndDocumentL()
BuildStartDocumentL
BuildStartElementL()
BuildContentL()
BuildEndElementL()
BuildEndDocumentL()
Generate document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Start()
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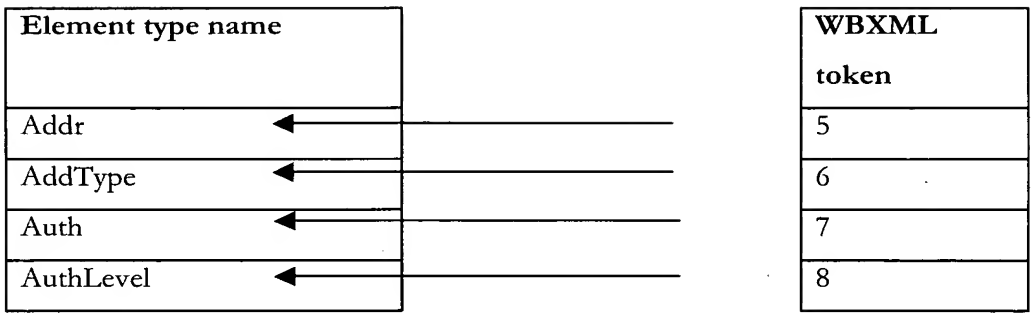
Element type name
Addr
AddType
Auth
AuthLevel
WBXML token
5
6
7
8

Figure 8